



## In-Depth Introduction to Hydraulic Fracturing

August 27-28, 2012 :: Pittsburgh, PA

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Hydraulic Fracturing is a very common technique in oil and gas drilling. Although the idea is simple to understand, the terminology and processes are more complex.

### Event links

Whether you have a financial or engineering background, the course is designed to give a broad overview of how hydraulic works, the processes that are incorporated into hydraulic fracturing. Attendees will walk away from this course

Improving HSE in O&G  
Strategies and Perspectives  
on Decreasing Accidents and Expanding Operations  
May 21-22, 2012 in Denver, CO

### Other events

Topics include:  
Intensive Natural Gas Course for Energy Professionals  
May 21-22, 2012 - Denver, CO  
The Lightning Threat: Oil and Gas  
May 24, 2012 - Online  
Recent Changes in Texas Eminent Domain Law  
Affecting Energy Projects  
May 30, 2012 - Online  
EUCI Job Board!

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the energy industry!

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identifying and locating  
"source rock"

### Drilling

- What it takes to drill  
(people, equipment,  
money, time, etc.)
- Differences in drilling  
techniques: cable vs.  
rotary vs. fracturing
- Vertical and horizontal
- Casing in drilling
- Problems with drilling:  
cementing, accidents,  
regulations
- Well completion: well  
stimulation

### Fracturing

- Action of fracturing :  
frac fluid, sand,  
proppants, flowback
- Frac design: amounts,  
composition, slick water  
vs. gelled, frac pressure

Instructed By

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David K. Dillon is the principal of David K. Dillon PE LLC, a petroleum engineering consulting firm located in Centennial, Colorado. He is a licensed professional engineer in Colorado and Wyoming, and he has been a member of the Society of Petroleum Engineers for more than 35 years. Before starting his career as a consulting engineer, Mr. Dillon worked in the private oil and gas industry for 20 years as a drilling engineer, a production engineer, and a reservoir engineer. He has extensive experience in optimizing production from existing fields, secondary recovery operations, and the calculation of reservoir reserves.

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